IN THE CLAIMS:

1. (Currently amended) A screen mountable color sensing device for sensing light emitting from a target screen, the device comprising:

a colorimeter configured with one or more light sensors and a field of view between each sensor and the target screen that simulates a human eye field of view;

a flexible cable adapted to electrically connect the colorimeter to a host, and to suspend the colorimeter in a selected position on the target screen; and

a slidable weight ~~coupled to the cable and adapted to slide~~ configured with a groove having pressure dimples therein to snugly but slidably couple to the cable, thereby allowing the slidable weight to be slid to a position on the cable so as to hold the colorimeter in the selected position on the target screen.

2. (Original) The device of claim 1 wherein each of the one or more light sensors is configured with a bubble shaped lens, and the colorimeter further comprises:

a tube block having one or more filter cavities and corresponding light passages, and two or more alignment pins, thereby enabling a self-aligning fabrication process for the device; and

a sensor locating element operatively coupled to the pins of the tube block, the sensor locating element having one or more lens alignment holes, each hole adapted to receive a corresponding one of the bubble shaped lenses, thereby aligning each sensor with a corresponding light passage of the tube block.

3. (Original) The device of claim 2 wherein the colorimeter further comprises:

one or more light filters, each filter placed in a corresponding one of the filter cavities, thereby providing one or more spectrally selective channels, with each spectrally selective channel designed to provide the field of view between each sensor and the target screen that simulates a human eye field of view.

4. (Original) The device of claim 3 wherein the one or more spectrally selective channels are non-overlapping, thereby enabling tri-stimulus measurements.

5. (Original) The device of claim 3 wherein each spectrally selective channel is designed to provide a field of view between each sensor and the target screen in the range of +/- 5 to 7 degrees.

6. (Original) The device of claim 2 wherein each of the one or more light sensors has a planar locating surface that mates with a surface about a corresponding one of the lens alignment holes of the sensor locating element, thereby aligning a plane of the target screen and a plane of the light sensors.

7. (Original) The device of claim 1 wherein the colorimeter further comprises:

an array of suction cups adapted to hold the colorimeter in position on the target screen, each cup in the array having a maximum displacement distance of 0.115 inches or less, thereby enabling positional stability of the colorimeter, the maximum displacement distance defining a distance any one cup will move in transitioning from a fully engaged-state to a fully relaxed-state; and

one or more rigid stops located on the array, so as to establish a pre-set distance of the colorimeter to the target screen, each stop having a height that allows each of the suction cups to be fully seated.

8. (Original) The device of claim 7 wherein the array of suction cups further comprises:

a sensor hole located in the array, so as to allow the colorimeter to receive light emitted from the target screen; and

a sensor shield located about the sensor hole, and adapted to shield the one or more light sensors from extraneous light generated by sources other than the target screen.

9. (Original) The device of claim 7 wherein the array of suction cups is formed using injection molding techniques and then operatively coupled to the colorimeter.

10. (Original) The device of claim 1 wherein the colorimeter has a target screen surface and a backside, the device further comprising:

a suction cup adapted for deployment proximate the target screen and to secure a leaf spring; and

a leaf spring operatively coupled between the suction cup and the colorimeter, and adapted to provide a slight bias force to the backside of the colorimeter, thereby ensuring the target screen surface of the colorimeter lays flush to the target screen in the presence of disruptive conditions and anomalies.

11. (Original) The device of claim 1 wherein the colorimeter has one or more weights placed within its body, thereby causing the colorimeter to lay flush against the target screen.

12. (Original) A screen mountable color sensing device for sensing light emitting from a target screen, the device comprising:

a colorimeter configured with one or more sensors and a field of view between each sensor and the target screen that simulates a human eye field of view;

a flexible cable adapted to electrically connect the colorimeter to a host, and to suspend the colorimeter in a selected position on the target screen;

a suction cup adapted for deployment proximate the target screen and to secure the flexible cable so as to hold the colorimeter in the selected position on the target screen.

13. (Original) The device of claim 12 wherein the colorimeter has a target screen surface and a backside, and the suction cup is further adapted to secure a leaf spring, the device further comprising:

a leaf spring operatively coupled between the suction cup and the colorimeter, and adapted to provide a slight bias force to the backside of the colorimeter, thereby ensuring the target screen surface of the colorimeter lays flush to the target screen in the presence of disruptive conditions and anomalies.

14. (Original) The device of claim 12 wherein each of the one or more light sensors is configured with a bubble shaped lens, and the colorimeter further comprises:

a tube block having one or more filter cavities and corresponding light passages, and two or more alignment pins, thereby enabling a self-aligning fabrication process for the device; and

a sensor locating element operatively coupled to the pins of the tube block, the sensor locating element having one or more lens alignment holes, each hole adapted to receive a corresponding one of the bubble shaped lenses, thereby aligning each sensor with a corresponding light passage of the tube block.

15. (Original) The device of claim 14 wherein the colorimeter further comprises:

one or more light filters, each filter placed in a corresponding one of the filter cavities, thereby providing one or more spectrally selective channels, with each spectrally selective channel designed to provide the field of view between each sensor and the target screen that simulates a human eye field of view.

16. (Original) The device of claim 15 wherein the one or more spectrally selective channels are non-overlapping, thereby enabling tri-stimulus measurements.

17. (Original) The device of claim 15 wherein each spectrally selective channel is designed to provide a field of view between each sensor and the target screen in the range of +/- 5 to 7 degrees.

18. (Original) The device of claim 14 wherein each of the one or more light sensors has a planar locating surface that mates with a surface about a corresponding one of the lens alignment holes of the sensor locating element, thereby aligning a plane of the target screen and a plane of the light sensors.

19. (Original) The device of claim 12 wherein the colorimeter further comprises:

an array of suction cups adapted to hold the colorimeter in position on the target screen, each cup in the array having a maximum displacement distance of 0.115 inches or less, thereby enabling positional stability of the colorimeter, the maximum displacement distance defining a distance any one cup will move in transitioning from a fully engaged-state to a fully relaxed-state; and

one or more rigid stops located on the array, so as to establish a pre-set distance of the colorimeter to the target screen, each stop having a height that allows each of the suction cups to be fully seated.

20. (Original) The device of claim 19 wherein the array of suction cups further comprises:

a sensor hole located in the array, so as to allow the colorimeter to receive light emitted from the target screen; and

a sensor shield located about the sensor hole, and adapted to shield the one or more light sensors from extraneous light generated by sources other than the target screen.

21. (Original) The device of claim 19 wherein the array of suction cups is formed using injection molding techniques and then operatively coupled to the colorimeter.

22. (Original) The device of claim 12 wherein the colorimeter has one or more weights placed within its body, thereby causing the colorimeter to lay flush against the target screen.

23. (Original) A screen mountable color sensing device for sensing light emitting from a target screen, the device comprising:

a colorimeter having a target screen surface and a backside;

a flexible cable adapted to electrically connect the colorimeter to a host, and to suspend the colorimeter in a selected position on the target screen;

a suction cup adapted for deployment proximate the target screen and to secure the flexible cable so as to hold the colorimeter in the selected position on the target screen; and

a leaf spring operatively coupled between the suction cup and the colorimeter, and adapted to provide a slight bias force to the backside of the colorimeter, thereby ensuring the target screen surface of the colorimeter lays flush to the target screen in the presence of disruptive conditions and anomalies.

24. (Original) The device of claim 23 wherein the colorimeter includes one or more light sensors each configured with a bubble shaped lens, and the colorimeter further comprises:

a tube block having one or more filter cavities and corresponding light passages, and two or more alignment pins, thereby enabling a self-aligning fabrication process for the device; and

a sensor locating element operatively coupled to the pins of the tube block, the sensor locating element having one or more lens alignment holes, each hole adapted to receive a corresponding one of the bubble shaped lenses, thereby aligning each sensor with a corresponding light passage of the tube block.

25. (Original) The device of claim 24 wherein the colorimeter further comprises:

one or more light filters, each filter placed in a corresponding one of the filter cavities, thereby providing one or more spectrally selective channels, with each spectrally selective channel designed to provide a field of view between each sensor and the target screen that simulates a human eye field of view.

26. (Original) The device of claim 24 wherein each of the one or more light sensors has a planar locating surface that mates with a surface about a corresponding one of the lens alignment holes of the sensor locating element, thereby aligning a plane of the target screen and a plane of the light sensors.

27. (Original) The device of claim 23 wherein the colorimeter further comprises:

an array of suction cups adapted to hold the colorimeter in position on the target screen, each cup in the array having a maximum displacement distance of 0.115 inches or less, thereby enabling positional stability of the colorimeter, the maximum displacement distance defining a distance any one cup will move in transitioning from a fully engaged-state to a fully relaxed-state; and one or more rigid stops located on the array, so as to establish a pre-set distance of the colorimeter to the target screen, each stop having a height that allows each of the suction cups to be fully seated.

28. (Original) The device of claim 27 wherein the array of suction cups further comprises:

a sensor hole located in the array, so as to allow the colorimeter to receive light emitted from the target screen; and

a sensor shield located about the sensor hole, and adapted to shield one or more light sensors included in the colorimeter from extraneous light generated by sources other than the target screen.

29. (Original) The device of claim 23 wherein the colorimeter has one or more weights placed within its body, thereby causing the colorimeter to lay flush against the target screen.

30. (Original) A screen mountable color sensing device for sensing light emitting from a target screen, the device comprising:

a colorimeter having a target screen surface and a backside;

a flexible cable adapted to electrically connect the colorimeter to a host, and to suspend the colorimeter in a selected position on the target screen;

a slidable weight coupled to the cable and adapted to slide to a position on the cable so as to hold the colorimeter in the selected position on the target screen; and

a leaf spring adapted to provide a slight bias force to the backside of the colorimeter, thereby ensuring the target screen surface of the colorimeter lays flush to the target screen in the presence of disruptive conditions and anomalies.

31. (Original) The device of claim 30 further comprising:

a suction cup adapted for deployment proximate the target screen and to secure one end of the leaf spring.

32. (Original) The device of claim 30 wherein the colorimeter includes one or more light sensors each configured with a bubble shaped lens, and the colorimeter further comprises:

a tube block having one or more filter cavities and corresponding light passages, and two or more alignment pins, thereby enabling a self-aligning fabrication process for the device; and

a sensor locating element operatively coupled to the pins of the tube block, the sensor locating element having one or more lens alignment holes, each hole adapted to receive a corresponding one of the bubble shaped lenses, thereby aligning each sensor with a corresponding light passage of the tube block.

33. (Original) The device of claim 32 wherein the colorimeter further comprises:

one or more light filters, each filter placed in a corresponding one of the filter cavities, thereby providing one or more spectrally selective channels, with each spectrally selective channel designed to provide a field of view between each sensor and the target screen that simulates a human eye field of view.

34. (Original) The device of claim 30 wherein the colorimeter further comprises:

an array of suction cups adapted to hold the colorimeter in position on the target screen, each cup in the array having a maximum displacement distance of 0.115 inches or less, thereby enabling positional stability of the colorimeter, the maximum displacement distance defining a distance any one cup will move in transitioning from a fully engaged-state to a fully relaxed-state; and

one or more rigid stops located on the array, so as to establish a pre-set distance of the colorimeter to the target screen, each stop having a height that allows each of the suction cups to be fully seated.

35. (Original) The device of claim 34 wherein the array of suction cups further comprises:

a sensor hole located in the array, so as to allow the colorimeter to receive light emitted from the target screen; and a sensor shield located about the sensor hole, and adapted to shield the one or more light sensors from extraneous light generated by sources other than the target screen.

36. (Original) The device of claim 30 wherein the colorimeter has one or more weights placed within its body, thereby causing the colorimeter to lay flush against the target screen.